

CLAIMS

1. **(Currently Amended)** One or more computer-storage media comprising computer executable instructions that configure one or more processors to perform a [[A]] method comprising:

utilizing one or more computers to split a scene into one or more coherent layers, wherein:

each coherent layer of the scene has a corresponding plane equation to represent a local geometry of that coherent layer; and

the one or more coherent layers in combination represent a single plane of the scene;

propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene;

refining the splitting to present a virtual view of the scene; and

rendering the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

2. **(Currently Amended)** One or more computer-storage media A method as recited in claim 1, wherein the virtual view of the scene is substantially free from aliasing.

3. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein each of the coherent layers has a corresponding background layer.

4. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein the plurality of frames correspond to different images of the scene.

5. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein the refining is initiated by a user.

6. **(Currently Amended)** One or more computer-storage media ~~A method~~ as recited in claim 1, wherein each layer of the scene has a corresponding plane equation to represent a local geometry of that layer.

7-34. **(Canceled)**

35. **(Previously Presented)** A system comprising:
one or more processors configured to execute computer-readable instructions;
a computer storage medium configured to store the computer-readable instructions;
a layer pop-up module to split a scene into one or more coherent layers;

a boundary propagation module to propagate boundaries of the coherent layers across a plurality of frames corresponding to the scene;

a refinement module to refine the splitting to present a virtual view of the scene; and

a rendering module to render the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

36. (Original) A system as recited in claim 35, wherein the virtual view of the scene is substantially free from aliasing.

37. (Original) A system as recited in claim 35, wherein the plurality of frames correspond to different images of the scene.

38. (Original) A system as recited in claim 35, wherein the refinement module is activated by a user.

39. (Original) A system as recited in claim 35, wherein each layer of the scene has a corresponding plane equation to represent a local geometry of that layer.

40-41. (Canceled)

42. (Original) A system as recited in claim 35, further comprising a memory module to store instructions.

43. (Original) A system as recited in claim 35, further comprising one or more processing units to execute a plurality of stored instructions on one or more memory modules coupled to the processors.

44. (Previously Presented) One or more computer-storage media comprising instructions stored thereon that direct a machine to perform acts comprising:

splitting a scene into one or more coherent layers, wherein;

each coherent layer of the scene has a corresponding plane equation to represent a local geometry of that coherent layer; and

the one or more coherent layers in combination represent a single plane of the scene;

propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene, wherein the plurality of frames correspond to different images of the scene;

refining the splitting to present a virtual view of the scene, wherein the refining is;

initiated by a user;

allows the user to select at least one of the coherent layers;

allows the user to refine the corresponding plane equation of the selected coherent layer; and

allows the user to inspect and adjust the rendering quality of the selected coherent layer in real time;

rendering the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

45. (Previously Presented) A computer-storage media as recited in claim 44, wherein the virtual view of the scene is substantially free from aliasing.

46-54. (Canceled)

55. (Previously Presented) An apparatus comprising:

- means for splitting a scene into one or more coherent layers;
- means for propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene;
- means for refining the splitting to present a virtual view of the scene; and
- means for rendering the coherent layers with a corresponding background layer to display the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

56-57. (Canceled)

58. (Currently Amended) One or more computer-storage media ~~A method~~
as recited in claim 1, wherein the scene represents a set of images.

59. (Previously Presented) A computer-storage media as recited in claim 44,
wherein the scene represents a set of images.